

## Claims

- 1 (currently amended) Lubricant grease for low and high temperature application,  
5 comprising a mixed grease and polyolefin oil, wherein said mixing grease comprises  
fluorine-containing lubricant grease containing perfluoropolyether oil as a base oil  
thereof and fluorocarbon resin powder as a thickening agent thereof and urea-containing  
lubricant grease containing polyester oil as a base oil thereof and a urea compound as a  
thickening agent thereof, wherein 3 to 30 parts by weight of said polyolefin oil is added  
10 to 100 parts by weight of said mixed grease, and said polyolefin oil has a pour point of  
not more than -50°C and a kinematic viscosity of 20 to 70mm<sup>2</sup>/s at 40°.
- 2 (canceled)
- 15 3 (currently amended): Lubricant grease according to claim 1, wherein said urea-  
containing lubricant grease has ~~[[a]]~~ an evaporation amount not more than 25 wt%, when  
said urea-containing lubricant grease is kept at 200 °C for 250 hours.
- 20 4 (currently amended): Lubricant grease according to claim 3, wherein said polyester oil  
is an aromatic ester compound of monovalent alcohol having 7 to 22 carbon atoms and  
aromatic tricarboxylic or tetracarboxylic acid or derivatives thereof and/or aliphatic ester  
compound of monovalent carboxylic acid having 7 to 22 carbon atoms and  
~~trimethylpropane trimethylolpropane, pentaerythritol or dipentapentaerythritol~~  
dipentaerythritol.
- 25 5 (original): Lubricant grease according to claim 4, wherein said polyester oil is an  
aromatic ester compound of monovalent alcohol having 7 to 22 carbon atoms and  
aromatic tricarboxylic or tetracarboxylic and acid or derivatives thereof.
- 30 6 (original): Lubricant grease according to claim 3, wherein a urea compound serving as  
a base oil of said urea-containing lubricant grease is shown by a chemical formula  
below:



where  $R_3$  is an aromatic group;  $R_1$  and  $R_2$  are selected one among an aliphatic group, and alicyclic group, and an aromatic group respectively;  $R_1$  and  $R_2$  are to be the same or different from each other.

5 7 (original): Lubricant grease according to claim 3, wherein for 100 wt% of an entire amount of said urea-containing lubricant grease, 70 to 95 wt% of said ester oil and 30 to 5 wt% of said urea compound are mixed with each other.

10 8 (original): Lubricant grease according to claim 1, wherein 100 wt% of an entire amount of said fluorine-containing lubricant grease, 70 to 90 wt% of said perfluoropolyether oil and 10 to 30 wt% of said fluorocarbon resin powder are mixed with each other.

15 9 (original): Lubricant grease according to claim 8, wherein said fluorocarbon resin powder is polytetrafluoroethylene resin powder.

20 10 (original): Lubricant grease according to claim 1, wherein said mixed grease contains 25 to 70 wt% of said fluorine-containing lubricant grease and 30 to 75 wt% of said urea-containing lubricant grease.

11 (original): Lubricant grease according to claim 1, wherein said mixed grease is applied for electric auxiliaries for a car.

25 12 (original): A rolling bearing comprising an inner ring; an outer ring concentrate with said inner ring; a plurality of rolling elements disposed between the inner ring and said outer ring; and lubricant grease sealed on a periphery of said rolling elements, wherein said lubricant grease is the grease for low and high temperature application according to claim 1.

30 13 (original): A rolling bearing according to claim 12, wherein said rolling bearing is applied for electric auxiliaries of a car.